Preliminary Program
UNMIXING THE SNCs: CHEMICAL, ISOTOPIC, AND PETROLOGIC COMPONENTS OF THE MARTIAN METEORITES
October 11–12, 2002
Houston, Texas

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Friday, October 11, 2002
RADIOGENIC ISOTOPES AND OXYGEN FUGACITY
8:30 a.m. Berkner Rooms

WELCOME AND ANNOUNCEMENTS

Borg L. E.* [INVITED 20-MINUTE PRESENTATION]
Exploring Trace Element and Isotopic Mixing Relationships in the Martian Meteorite Suite **[#6004]**

Lee C. T.* [INVITED 20-MINUTE PRESENTATION]
A Brief Overview of Mantle Metasomatism

Ripley E.* [INVITED 20-MINUTE PRESENTATION]
Chemical Effects on Interaction Between Magma and Wall Rock

Dreibus G.* Jagoutz E.
Crust-Mantle Reservoirs of Radiogenic Isotopes of Mars and Earth: Where Can We See a Mixing? **[#6002]**

Nyquist L. E.* Shih C.-Y. Wiesmann H. Barrat J. A.
An "Andesitic" Component in Shergottites with Restored LREE Abundances? **[#6020]**

Herd C. D. K.*
Martian Basalt Oxygen Fugacity and Geochemistry: Implications for a Heterogeneous Martian Mantle **[#6014]**

Musselwhite D. S.* Wadhwa M.
REE in Shergottite Augites and Whole Rocks **[#6024]**

McCanta M. C.* Rutherford M. J.
Oxygen Fugacity Recorded in Pigeonite: Indications of a Heterogeneous Martian Magma Source Region? **[#6013]**

* Denotes Speaker; [ ] Denotes Abstract Number

Friday, October 11, 2002
BASALTS AND PHASE EQUILIBRIA (ON MARS)
1:30 p.m. Berkner Rooms

Glazner A. * [INVITED 20-MINUTE PRESENTATION]
Thermal Constraints on Magma Mixing and Assimilation

Hess P. * [INVITED 20-MINUTE PRESENTATION]
Origins of the Martian Crust and Mantle **[#6029]**

Longhi J. *
SNC Meteorites and Their Source Composition(s) **[#6022]**

Kring D. A. *
QUE 94201: Reconsidering Its Origins as a Bulk Melt from a Volcanic Region of Mars **[#6005]**

Goodrich C. A. *
Petrogenesis of Olivine-Phyric Shergottites Sayh Al Uhaymir 005 and Elephant Moraine A79001 Lithology A **[#6018]**

Friday, October 11, 2002
POSTER SESSION
5:00 – 7:00 p.m. Great Room

Jagoutz E. J. Dreibus G. D.
New Aspects in the Isotope Systematics of Shergottites **[#6015]**

Schwenzer S. P. Mohapatra R. K. Herrmann S. Ott U.
Nitrogen and Noble Gases in Mineral Separates from Zagami **[#6010]**

Dyar M. D.
Mössbauer Spectroscopy of SNC Meteorites **[#6011]**

Hartmann W. K.
Mars Meteorite Statistics and the Martian Uplands **[#6027]**

Shirai N. Oura Y. Ebihara M.
Chemical Composition of Newly Collected Antarctic Nakhlites, Y000593 and Y000749 **[#6017]**

Sautter V. Barrat J. A. Jambon A.
Is Olivine Speedometer a Reliable Tool to Constrain Thermal Story of SNC Meteorites? **[#6003]**
****This Poster Canceled****

Ocker K. D. Holland G. Gilmour J. D.
Evolution of Martian Atmospheric, Crustal and Mantle Xenon Components in Basaltic Shergottites **[#6016]**

Rao M. N. McKay D. S.
Shergottite Impact Melt Glasses Contain Soil from Martian Uplands **[#6012]**

Mohapatra R. K. Murty S. V. S.
Silicon in Mars' Core: A Prediction Based on Mars Model Using Nitrogen and Oxygen Isotopes in SNC Meteorites **[#6009]**

Mittlefehldt D. W.
Geochemistry of Martian Meteorites and the Petrologic Evolution of Mars **[#6025]**

Walton E. L. Spray J. G.
Chemistry and Microtextures of Melt Pockets in the Los Angeles Basaltic Shergottite **[#6030]**

Saturday, October 12, 2002
GEOPHYSICS AND TRACE ELEMENTS
8:30 a.m. Berkner Rooms

Parmentier M.* [INVITED 20-MINUTE PRESENTATION]
Convection and Layering in the Martian Mantle

Kiefer W. S.*
Melting the Martian Mantle: Shergottite Formation and Implications for Present Day Mantle Convection on Mars **[#6006]**

Jones J. H.*
SNC Meteorites and Martian Reservoirs **[#6008]**

Treiman A. H.*
Element-Element Correlations Among Martian Meteorite Bulk Compositions: Peculiarities Explained(?) by Mixing, with Implications for the Composition of Mars **[#6026]**

Barrat J. A.* Beck P. Chaussidon M. Gillet Ph. Jambon A. Göpel C. Sautter V.
Incompatible Trace Elements in SNCs and Li Isotopes Systematics in a Shergottite **[#6007]**
****This Talk Canceled****

Saturday, October 12, 2002
NOBLE GASES AND SUMMATION
1:30 p.m. Berkner Rooms

Pepin R. O. * [INVITED 20-MINUTE PRESENTATION]
Noble Gases in the Terrestrial Planets, with Focus on what the SNC Meteorites Tell Us About Mars **[#6028]**

Swindle T. D. *
Some Puzzles About What Noble Gas Components Were Mixed into the Nakhlites, and How **[#6019]**

Delaney J. S. * Dyar M. D.
What Should We Looking for in Martian Meteorites? Is Evidence of Crustal Process or Mantle Process More Important — and to Whom? **[#6021]**

GENERAL DISCUSSION